Neutralization Transfer Cart

Operator's Manual

Custom Ultrasonics, Inc. documentation is considered PROPRIETARY and is made available for business operations and review by employees of the Company and regulatory agencies only. Distribution to third parties without prior permission is prohibited.

Table of Contents

Page 3 Description.

Page 4 Specifications of Adapters, Connectors, and Connecting Points.

Page 5 Installation Drawing.

Page 6 Operating Instructions.

Page 7-8 How to Empty System 83 Plus™ and Drain the Neutralized Disinfectant

Page 9 How to Flush, Rinse, and Drain Disinfectant Transfer Cart.

Page 10 General Maintenance...

- Use of Catch Basin Window
- Charcoal Filter Change
- General housekeeping

Page 11 Pictures of Neutralization Cart System.

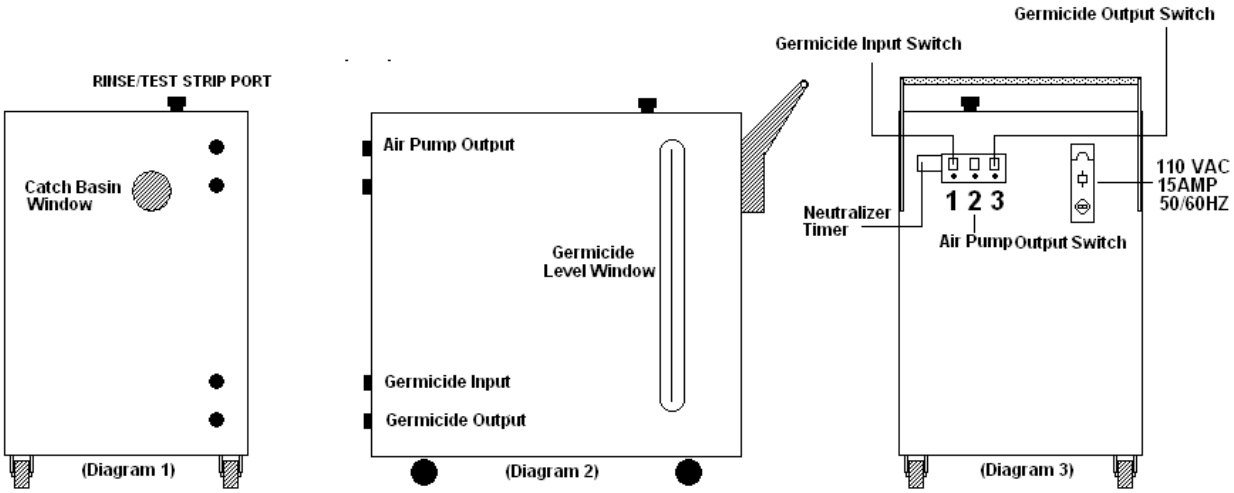
Custom Ultrasonics, Inc. documentation is considered PROPRIETARY and is made available for business operations and review by employees of the Company and regulatory agencies only. Distribution to third parties without prior permission is prohibited.

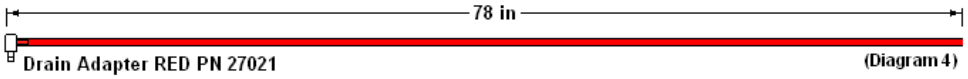
Description

The patented, #7,467,890 **Neutralization cart** is fabricated of stainless steel and contains: magnetic drive pumps, an air pump, a UN (United Nations) approved chemical handling drum, timer, sight glass light, 3 switches, and an electrical power cord. It is on casters for easy mobility. Displaced air is forced through a charcoal filter to ensure that minimal disinfectant fumes can escape during filling.

On expiration of the germicide or as needed, the **Neutralization Cart** allows for the neutralization of glutaraldehyde where required before disposal. An appropriate neutralizer is added to the **Neutralization cart**, the self closing adapter supplied with the **Neutralization cart** is connected to the System 83 Plus™ and the disinfectant pump drains the expired disinfectant from the System 83 Plus™ into the **Neutralization Cart**. The filling process creates a swirling motion in the drum to mix the disinfectant and neutralizer. The onboard pumps can be used to further mix the solution. After filling the drum, a timer is provided to assure the appropriate neutralization time is achieved.

Custom Ultrasonics, Inc. documentation is considered PROPRIETARY and is made available for business operations and review by employees of the Company and regulatory agencies only. Distribution to third parties without prior permission is prohibited.





(Drawing Not To Scale)

Custom Ultrasonics, Inc. documentation is considered PROPRIETARY and is made available for business operations and review by employees of the Company and regulatory agencies only. Distribution to third parties without prior permission is prohibited.

CUSTOM ULTRASONICS, INC.
NEUTRALIZATION CART

INSTALLATION REQUIREMENTS:

Installation is not required.
Follow standard procedures & local codes for utility placement.
A retrofit may be required on System 83 Plus to accommodate the hose connections.

ELECTRICAL SOURCE:

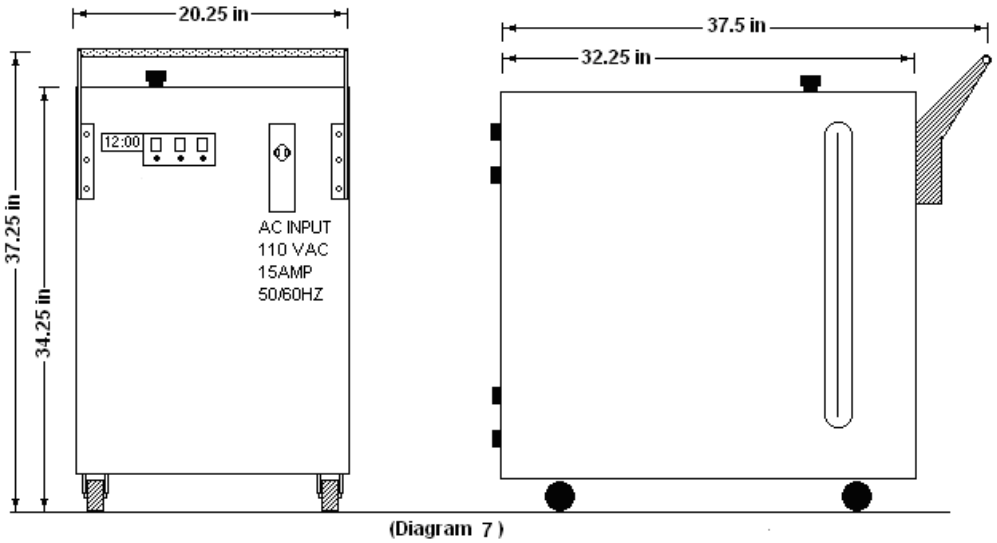
110 VAC 15 AMP 50/60HZ Ph GFCI receptacle.

WASTE DRAIN:

The drain hose can be placed into any available standpipe > 1½" diameter.
Dry Wieght: **60 lbs Approx**
Full Wieght: **205 lbs Approx**

ELECTRICAL:

Operating electical spec:
110 VAC 15A 50/60Z
Ph GFCI receptacle.



(Diagram 7)

Custom Ultrasonics, Inc. documentation is considered PROPRIETARY and is made available for business operations and review by employees of the Company and regulatory agencies only. Distribution to third parties without prior permission is prohibited.

Operating Instructions

- Read this manual thoroughly to become familiar with the operation of the Neutralization Cart.
- Do not attempt to use this **Neutralization Cart** unless you have been trained to do so and you are familiar with its operation.
- You will be using the liquid chemical germicide (high level disinfectant) of your choice. It is imperative that you understand the safety precautions necessary to handle that particular disinfectant. You should consult the disinfectant manufacturer for Material Safety Data Sheets (MSDS) and other appropriate information and your facility's infection control procedures for handling disinfectants.
- When reference is made to activation or using an activator, refer to the disinfectants manufacturer's label claim or instructions. **"Note that certain disinfectants do not require an activator".**
- When a reference is made to neutralization or using a neutralizer, refers to the neutralizer and/or disinfectant manufacturer's label claim or instructions.
- Appropriate personal protective equipment, such as, but not limited to, eye shields and latex or nitrile gloves should be used based on the particular substance with which you are working.

Custom Ultrasonics, Inc. documentation is considered PROPRIETARY and is made available for business operations and review by employees of the Company and regulatory agencies only. Distribution to third parties without prior permission is prohibited.

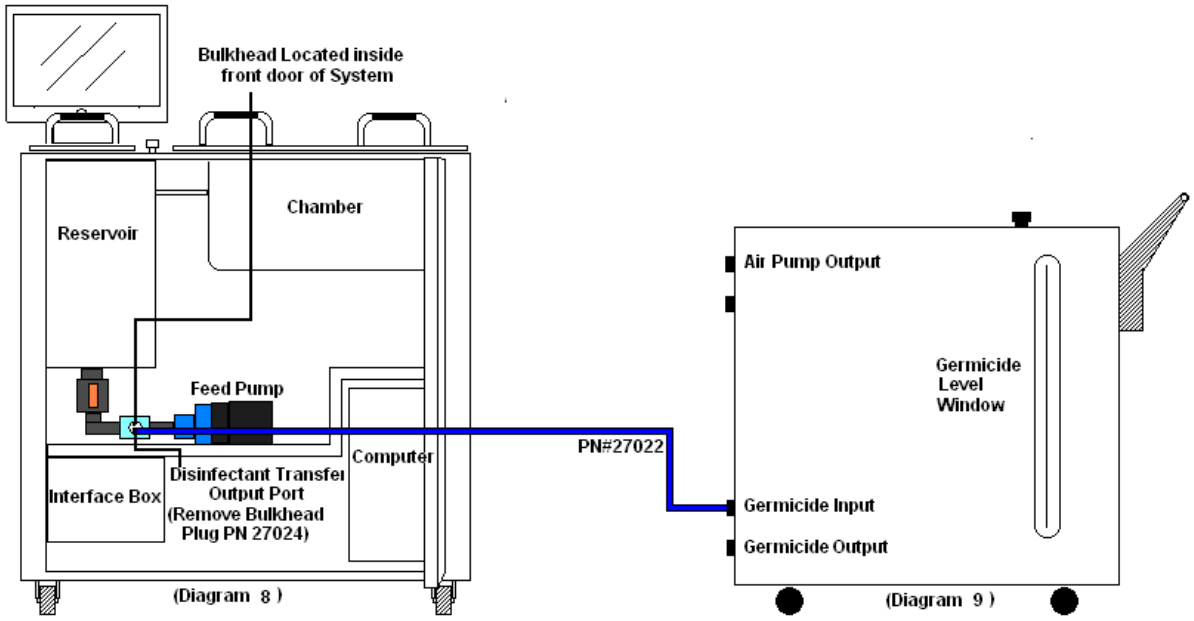
How To Empty System 83 Plus™ and Drain the Neutralized Disinfectants:

1. Add the appropriate amount of neutralizer per label instructions to cart.

2. Remove (bulkhead) plug PN# 27024.

3. Connect transfer adapter PN#27022 (Diagram 8 and 9) from the Transfer Disinfectant output port on the System 83 Plus™ to the germicide input bulkhead, located on the Neutralization Transfer Cart. Engage the germicide input switch until System 83 Plus ™ is completely emptied. Disengage the germicide input switch and disconnect adapter PN#27002 from machine and cart.

4. Set timer (to the minimum required time per labeling claim of the neutralizer) for the prescribed duration, in order to neutralize the (LCG) Liquid Chemical Germicide.



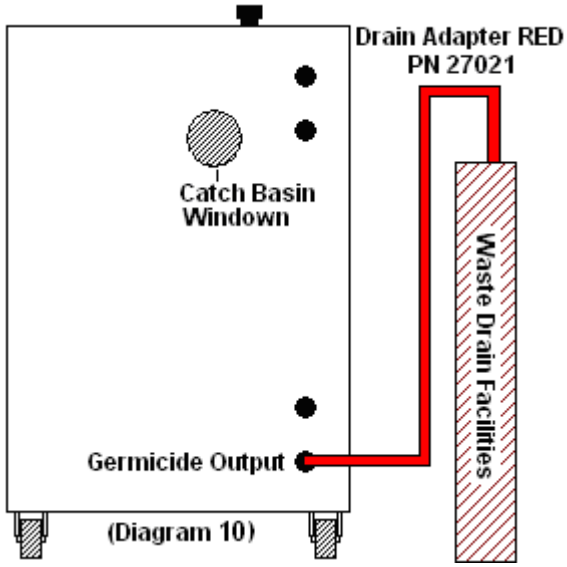
Custom Ultrasonics, Inc. documentation is considered PROPRIETARY and is made available for business operations and review by employees of the Company and regulatory agencies only. Distribution to third parties without prior permission is prohibited.

5. Replace (bulkhead) plug PN# 27024.

6. Connect red adapter PN# 27021 to bulkhead. (See Diagram 10 below).

7. Place open end of the red adapter PN# 27021. Connect down into the standpipe, ensuring the adapter is secure before continuing.

8. Activate germicide output switch until the barrel is empty (see side glass panel for measurement). On completion, turn off germicide output switch and disconnect the red adapter PN# 27021.



(Diagram 10)

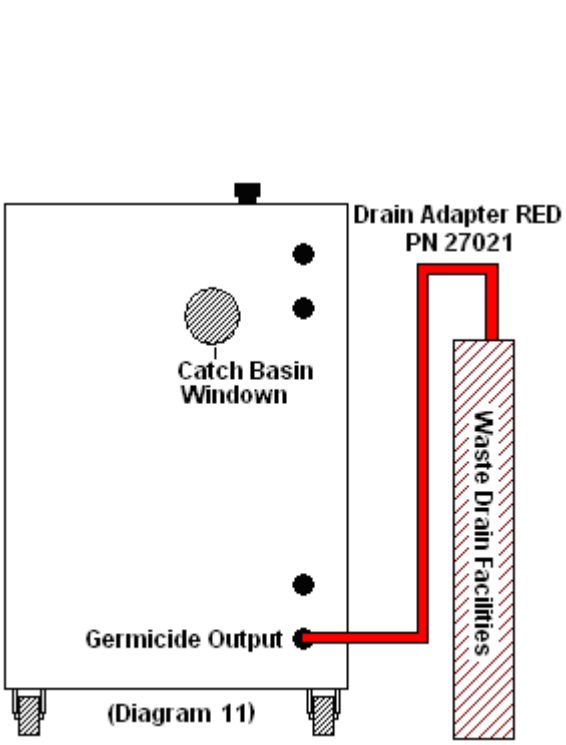
Custom Ultrasonics, Inc. documentation is considered PROPRIETARY and is made available for business operations and review by employees of the Company and regulatory agencies only. Distribution to third parties without prior permission is prohibited.

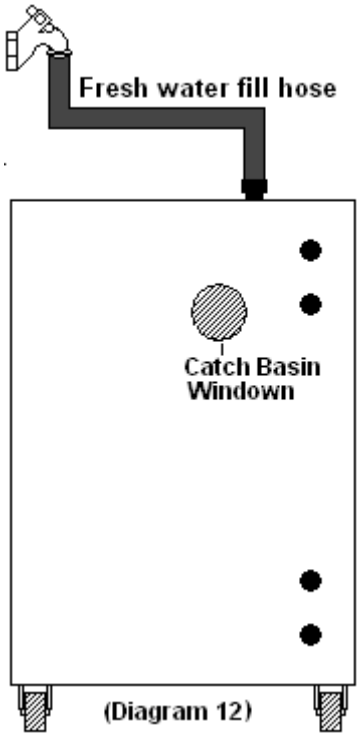
How to Flush, Rinse and Drain Neutralization Cart

1. Place open end of the red adapter PN# 27021 to the germicide output adapter and into the stand pipe. Connect down into the standpipe, ensuring the adapter is secure before continuing.(Diagram 11)

2. Attach fresh water fill hose from water source to the rinse/MEC testing port on top of the neutralization transfer cart and fill with water to the 15 gallon mark (Diagram 12) below.

3. Activate germicide output switch until barrel is empty (see side glass panel for measurement).
.





Custom Ultrasonics, Inc. documentation is considered PROPRIETARY and is made available for business operations and review by employees of the Company and regulatory agencies only. Distribution to third parties without prior permission is prohibited.

General Maintenance
Use of Catch Basin Window

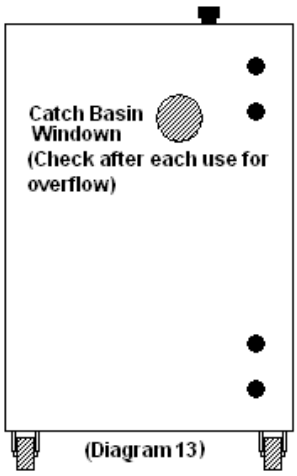
1. The catch basin is used to prevent an overflow of liquid from the holding drum to the fume filter.
2. Periodically view the window to determine if there has been an overflow.
3. If there is liquid in the catch basin, remove the front panel of the disinfectant transfer cart, hold a suitable container under the petcock and drain the catch basin.

Charcoal Filter Change

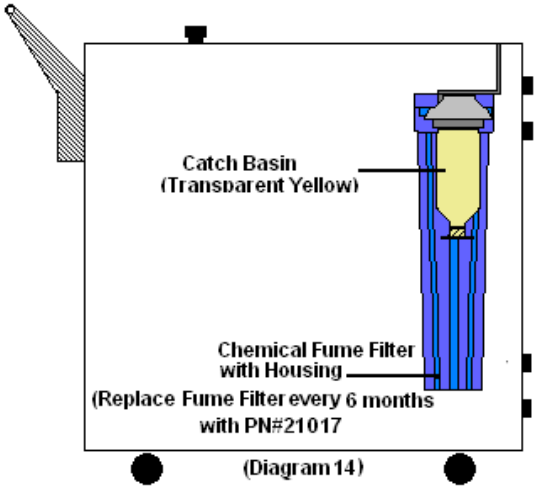
1. The charcoal filter is used to minimize fumes from the chemicals, created by the pressure of filling the holding tank, from escaping into the room.
2. If the unit is used regularly, this filter (PN 21017) should be changed semi-annually.
3. The metal hold down bracket is also a filter wrench.
4. Unscrew the thumb screw holding the wrench to the wall of the unit.
5. Remove the Blue filter canister and dispose of the old filter.
6. Replace the filter and HAND TIGHTEN the canister only.

General Housekeeping

1. Keep the Neutralization Cart and barrel clean (see previous page for instructions).
2. Wipe up any spills with a soft cloth
3. Clean external surfaces with a soft cloth and non-abrasive disinfectant cleaner to maintain finish.
4. Stainless steel cleaner/polish can be used if it is acceptable with your IC department.
5. Lubricate the male bulkheads fittings when rinsing out the cart.



(Diagram 13)



(Diagram 14)

Custom Ultrasonics, Inc. documentation is considered PROPRIETARY and is made available for business operations and review by employees of the Company and regulatory agencies only. Distribution to third parties without prior permission is prohibited.

(Neutralization Transfer Cart System)

Custom Ultrasonics, Inc. documentation is considered PROPRIETARY and is made available for business operations and review by employees of the Company and regulatory agencies only. Distribution to third parties without prior permission is prohibited.